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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,353	03/23/2006	Daniel Alvarez JR.	31941019009	5574
21005 7590 05/16/2008 HAMILTON, BROOK, SMITH & REYNOLDS, P.C. 530 VIRGINIA ROAD			EXAMINER	
			VANOY, TIMOTHY C	
P.O. BOX 9133 CONCORD, MA 01742-9133			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			05/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/565,353	ALVAREZ ET AL.				
Office Action Summary	Examiner	Art Unit				
	TIMOTHY C. VANOY	1793				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on <u>20 Ja</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ☐ Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-21 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine. 10) ☐ The drawing(s) filed on 20 January 2006 is/are: Applicant may not request that any objection to the orecastion.	vn from consideration. r election requirement. r. a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
11)⊠ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Jan. 20, 2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte				

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DETAILED ACTION

Oath/Declaration

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration filed on 01-20-2006 is defective because: It does not identify the mailing address for the inventor Daniel Lev. A mailing address is an address at which an inventor customarily receives his or her mail and may be either a home or business address. The mailing address should include the ZIP Code designation. The mailing address may be provided in an application data sheet or a supplemental oath or declaration. See 37 CFR 1.63(c) and 37 CFR 1.76.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-21 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 03/037485 A1 to Watanabe et al.

Claim 1 in the Watanabe reference describes a method for removing contaminants from a hydride gas stream by contacting the contaminated hydride gas stream with a purifier material for a period of time sufficient to reduce the level of contaminants to parts per billion levels, the purifier material comprises a substrate supporting a thin layer of one or more reduced forms of a metal oxide. Claim 4 sets forth that the metal oxide may be selected from a Markush group

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that contains cerium oxide (as well as vanadium oxide, molybdenum oxide and chromium oxide). *Note that Example 1 is specifically limited to the use of cerium oxide.* Claim 5 sets forth that the substrate may be titania or zirconia. Claim 6 sets forth that the hydride gas may be ammonia, arsine, phosphine, etc. . . Claim 14 sets forth that the total surface area of the thin layer of purifier material is less than 100 m²/g. Claim 16 sets forth that the purifier material comprises from 1 to 20 % of the reduced form of metal oxide and bout 80 to 99 % of the substrate.

Claims 20 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by US 2001/0012502 A1 to Okumura et al.

Paragraph no. 0119 in the Okumura et al. reference describes a complex oxide containing at least one element selected from the group consisting of cerium, lanthanum, yttrium, neodymium and praseodymium and also at least one element selected from the group consisting of titanium, manganese, iron, cobalt, nickel, copper and tin. The weight ratio of the lanthanide element to the other (non-lanthanide) transition metal ranges from 1:20 to 100:1.

Response to Amendment

The Preliminary Amendment filed on 01-20-2006 is improper because it does not show the changes made to the specification via the amendment (to include "strike-throughs" to show deletions and underlinings to show additions).

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References made of Record

The following references are made of record:

U. S. Pat. 6,241,955 B1 disclosing a method and apparatus for the purification of a hydride gas stream, and

U. S. Pat. 5,716,588 disclosing getter materials for deoxygenating ammonia/oxygen gas mixtures.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TIMOTHY C. VANOY whose telephone number is (571)272-8158. The examiner can normally be reached on Mon-Fri 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

Timothy C Vanoy Primary Examiner Art Unit 1793

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.